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Lecture title:

Floating implants for simultaneous sinus lift, implantation and ridge augmentation: Science fiction or just the beginning of new reality?

Abstract lecture: The treatment of the severe atrophic posterior maxilla as an initial step towards implantation is still a challenging procedure for specialties involved in oral and maxillofacial surgery. In the present lecture a clinical insight is given behind the understanding, that together with ceramic implants and flexible titanium meshes, biomaterials in combination with blood concentrates a solution can be given in treating severe atrophic posterior maxilla.

The theoretical background behind the development of this concept as well as presentation of clinical cases will allow the participants to decide to what extend the here presented concept with floating ceramic implants, which are fixed in flexible titanium meshes in combination with sticky bone will have an impact on successful and time saving treatment of the severe atrophic posterior maxilla.

Workshop title:

Guided Open Wound Healing: A new approach in applying oral surgery.

Abstract Workshop:

Patients own blood concentrates as an autologous source of cells and growth factors are essential mediators for increasing the outcome of surgery in dentistry. In particular, the use of platelet-rich fibrin (PRF) has been and continues to be the focus of an increasing number of procedures within dentistry. In this user course, dentists, oral surgeons and maxillofacial surgeons will, after a brief theoretical update, deepen their knowledge of the processing of blood concentrates and biologization with various bone substitute materials. They will learn socket preservation and innovative augmentation techniques to deepen their knowledge in augmentation. Specific patient cases will be discussed, in order to highlight the range of the application of blood concentrates. In the course, you will learn essential updates on the application areas, special features as well as properties of different bone substitute materials and the membranes to facilitate decision making for augmentation materials, especially in Guided Open Wound Healing. In concrete terms this means the preparation of blood concentrates and processing. Furthermore, there will be a session to discuss in detail own patient cases as well as practical experience in the application of blood concentrates.

CV of Shahram Ghanaati

HAHRAM GHANAATI, MD, DMD, PhD, Prof. Shahram Ghanaati is a specialist in Oral and Maxillofacial Surgery with additional designation in Plastic Surgery and has a triple doctorate in medicine, dentistry and science (MD, DMD, PhD) from the German universities Johannes Gutenberg University, Mainz and Johann Wolfgang Goethe University, Frankfurt. From 2007 to 2013, he successfully completed his residency at the Clinic of Oral, Cranio-Maxillofacial and Plastic Surgery, Johann Wolfgang Goethe University, Frankfurt. In 2013, he achieved the degree of Specialist in Oral and Maxillofacial Surgery. In 2016, he achieved the degree of Specialist in Oral and Maxillofacial Surgery with additional designation in Plastic Surgery. In 2016, he was appointed as the Chief Senior Physician and in 2017 as Deputy Director of the Department of Clinic of Oral, Cranio-Maxillofacial and Plastic Surgery, Johann Wolfgang Goethe University, Frankfurt. In the same year, Prof. Ghanaati was appointed as an

Extraordinary Professor and faculty member of the Johann Wolfgang Goethe University. In 2018 he became Fellow of European Board of Oral- and Maxillo-Facial Surgeons (FEBOMFS). Today, Prof. Ghanaati leads the Head and Neck Cancer Center at the University Cancer Center, Johann Wolfgang Goethe University, Frankfurt. Prof. Ghanaati has performed several translational studies (preclinical and clinical) with special focus on biomaterial-related cellular reaction and regeneration capacity. Since more than 20 years, beginning with his scientific work at the Institute for Pathology at the Johannes Gutenberg University Mainz, he has extensively studied the inflammatory pattern and regeneration capacity of biomaterials with respect to different physicochemical properties. First in Mainz, where he in 2005 founded the Repair-Lab in vivo, and later at the University Clinics in Frankfurt/Main, where in 2009 he founded the FORM-Lab (Frankfurt Orofacial Regenerative Medicine), the research laboratory of the Department of Oral, Cranio-Maxillofacial and Plastic Surgery, Johann Wolfgang Goethe University Frankfurt. In FORM-Lab, he leads a working group of scientists and clinicians, who perform basic science and clinical studies focusing on understanding the biomaterial-based regeneration process and aspects of vascularization in management of soft and bone tissue regeneration. In 2010, he started to develop advanced preparation protocols of platelet rich fibrin (PRF) together with Dr. Joseph Choukroun, the founder of PRF. In 2016, Prof. Ghanaati and his team established the so-called LSCC (Low Speed Centrifugation Concept) for PRF-derived blood concentrates to gain a highly bioactive autologous drug delivery system. This development led to the establishment of an AWMF S3-guideline for use of PRF in oral dentistry. Today Prof. Ghanaati's research focuses on understanding atrophic jaw pathologies, and on the optimization of bone and soft tissue regeneration. An important part is the intensive research on establishing novel surgical methods called Guided Open Wound Healing for biomaterial-based tissue augmentation in preparation for implant-based functional restoration. In his research Prof. Ghanaati participated in the development of over 10 biomaterials from the bench to the clinic. In regard to this, he is a research advisor for many of the world's leading biomaterial manufacturers.

Prof. Ghanaati has presented more than 120 lectures at national and international congresses and has given more than 150 courses and workshops on GTR & GBR in implantology as well as on regenerative concepts and blood concentrates. He has published more than 170 peer-reviewed publications, with a respective H-Index of 38 and a cumulative impact factor exceeding 620, in the field of regenerative and reconstructive medicine and research covering the whole translational research chain from basic in vitro research, to animal in vivo research, and finally in clinical studies and trials.

